What is claimed is:

- [Claim 1] 1. A method for handling an interrupt request in an optical storage drive when the optical storage drive executes a control procedure or operation, the method comprising:
 - utilizing the optical storage drive to receive an interrupt request from a control circuit;
 - checking whether the interrupt request is a read command;
 - if the interrupt request is a read command, checking whether data indicated by the read command is stored in a buffer; and
 - if the indicated data is stored in the buffer, transferring the corresponding data to the control circuit from the buffer to respond to the interrupt request.
- [Claim 2] 2. The method of claim 1, wherein the buffer is a volatile memory of the optical storage drive.
- [Claim 3] 3. The method of claim 1, wherein the buffer is a register of the optical storage drive.
- [Claim 4] 4. The method of claim 1, wherein the control circuit is a host computer.
- [Claim 5] 5. The method of claim 1, further comprising:
 - if the data indicated by the read command is not stored in the buffer, suspending handling the interrupt request.
- [Claim 6] 6. A storage medium for storing program code used to control an optical storage drive to perform the following steps while executing a control procedure or operation:

receiving an interrupt request from a control circuit; checking whether the interrupt request is a read command; if the interrupt request is a read command, checking whether data indicated by the read command is stored in a buffer; and if the indicated data is stored in the buffer, transferring the corresponding data to the control circuit from the buffer to respond to the interrupt request.

[Claim 7] 7. The storage medium of claim 6 being a non-volatile memory.